
COMPANY NAME

TradeNest

Project Vision Document

Version 1

9/23/2024

Revision History

Revision	Date	Author	Reviewed By	Summary of Changes

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1 Introduction

1.1 Purpose

This document is about identifying key components of the project and will be used to structure the steps in the development process. This document also provides some definitions and references that will be used and will also provide information on what is the purpose of the project and who's involved in it. This document is to keep everyone involved in the project on the same page and as a reference for key aspects of the project. This is where we will base the project on.

1.2 Scope

This Vision Document is for the TradeNest application. We will create a web application where users in an institution can report lost items, lend their items, and trade their items (that could also be trading for cash).

1.2.1 In Scope

This web application will have some core functionalities of adding, deleting, and editing items in the database. It will integrate the database given by George Brown College. It will have responsive design and interface for landscape and portrait orientations, so it will be well designed for web browsers in both PC's and mobile devices. It will have testing processes to identify performance and security issues. The user will be able to create an account with a George Brown email address.

1.2.2 Out of Scope

The project will not have functionalities for the user to post that they lost an item, and it will not have third-party integrations.

1.3 Definitions, Acronyms, and Abbreviations

This section explains all of the terms and abbreviations that are being used in this document, for those who are unfamiliar with them. Not everybody who reads this document will understand all of the terms, so this section is helpful.

Term	Explanation
Web Application	A software application that runs on a web server, accessed via a web browser over the internet.
Database	A structured collection of data that is stored and accessed electronically. In this project, it refers to the database provided by George Brown College.

Responsive design	An approach to web design that makes web pages render well on various devices and window or screen sizes.
Landscape Orientation	A horizontal layout of a device's screen where the width is greater than the height.
Portrait Orientation	A vertical layout of a device's screen where the height is greater than the width.
Performance Testing	Testing that evaluates the speed, responsiveness, and stability of the system under a certain workload.
Security Testing	Testing to identify vulnerabilities and ensure that the web application is secure from threats.
George Brown College	An institution providing the database for this project, and the organization that users will need an email from to create an account. It is the college where this project is being tasked by.

1.4 References

<This subsection provides a complete list of all documents referenced elsewhere in the Project Vision. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document>

Reference File Name	Version	Description
COMP3059-F24-Project_Summary_ComesOrGoes	1.0	This document provides a summary of the high-level vision for the project.
COMP3059-F24-High Level Requirements-Template	1.0	Provides a big picture view of the key requirements of the project. Gives an outline of what the project is supposed to achieve.
COMP3059-F24-Minutes of Meeting-Template	1.0	A location to record all the discussions and decisions made during our project meetings.

This section also contains links to all other places that were referred to in this document. These may include:

- *Web sites*
- *URLs or network locations*
- *Research done for similar products*

Name	Link
Facebook Marketplace	https://www.facebook.com/marketplace/
Kijiji Canada	https://www.kijiji.ca/

Etsy Canada	https://www.etsy.com/ca/
eBay	https://www.ebay.ca/

2 Positioning

2.1 Business Opportunity

This project is meant to allow individuals to report items they have found in a specific institution, and it gives users an opportunity to get back their lost items. Also, the users will be able to present items that they do not want anymore, which can reduce the amount of waste that is generated by the purchasing of replacements.

2.2

The Problem of	finding lost personal items
affects	everyone who tends to forget where they left their belongings
the impact of which is	that they end up replacing the items and waste time and more money
a successful solution would be	to provide a platform that gives an incentive to individuals who find items in the institution to post it on the project application so that the owner has a chance to recover said item and consequently reducing personal costs.

Table 1 Problem Statement

2.3 Product Position Statement

For	Individuals in an institution
Who	Need a place to find their items or get rid of their current ones
The TradeNest	Is a web application
That	Can help users find their personal belongings, get rid of items that they don't want to keep, and possibly earn some money by selling their items
Unlike	WhatsApp, Facebook, and other platforms
Our product	Provides a dedicated, central hub design for reporting lost items, as well as lending and trading items to each other within the institution. The users also have the option to exchange the items for money instead of another item.

Table 2 Product Position Statement

2.4 SWOT Analysis

<Reference: <https://www.businessballs.com/strategy-innovation/swot-analysis/>>

Strengths	Weaknesses
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Offers a dedicated platform for reporting, finding, and trading personal items, which can save users money.	It requires users to spend energy into posting the lost item and possibly interacting with the owner.
Engages the community and encourages them to interact and help each other out, giving a better sense of community.	Individuals are usually hesitant to use a new platform that they have no experience with.
Decreases the need to buy replacements for lost items, and saves them time by not having to search for the items.	Since it's a new platform, not many people will be aware of its existence in the beginning unless there's substantial marketing.
Opportunities	Threats
Possible partnership deals with institutions to let them integrate the project.	There are many well-known companies and applications that have at least one of our project's functionalities.
A lot of possible features that can be added to the project, such as integrating a map to know the location of the item or implementing a payment functionality.	If there is not enough security measures, someone could obtain sensitive personal information from the users.
Can let users provide critics of the application to help us improve it.	Someone could easily create a very similar application, implement their own features, and create more competition.

3 Stakeholder and User Descriptions

3.1 Stakeholder Summary

Stakeholder Name	Represents	Role
Computer Programmer	This is a stakeholder that will oversee the front and back end development of the web application. Oversees the testing implementations and the debugging tools that will be used.	Writes and maintains clean code for the application, as well as identifying program bugs and issues. Will work with the other developers to make sure the application features are being implemented correctly.
Business Analyst	This is a stakeholder that will research and analyze the project process to see areas of improvement	Will collaborate with other stakeholders and users to gather business requirements for this application. Also develops the functionality specifications for the application features.
Full Stack Developer	This is a stakeholder that will focus on the UI and the database management	Will design the user interface using HTML, CSS, and JavaScript, and create a dynamic experience for the users. Will develop the server-side logic as well, and will also design the database schema.
Security Architect	This is a stakeholder that will design the security features of the application.	Ensures protection of users' sensitive information and will design the APIs for the front-end and back-end systems. Creates user authentication and authorization so users have the correct access to program functions.

Table 3 Stakeholder Summary

3.2 User Summary

User Name	Description	Responsibilities	Stakeholder
Student	The primary user of the application	Report lost items that are found in the institution. Post items that they wish to lend or trade for something else (another item or currency).	Self
Project Founders	End user of the system	Assess the web application's overall performance and maintain proper functions and features.	Self
Teacher	End user of the system	Evaluate the project founders' work on the web application requirements.	Self

Table 4 User Summary

4 Stakeholder Requirements

< Categorize and list the requirements from the perspective of the business stakeholder and potential system users >

ID	Requirement	Stakeholder
Customer	Smooth access to the program's features and user-friendly interface. Able to create an account and post their items. Can report lost items.	Students, Teacher
Founder	Can make changes to the web application and implement more features and functionalities.	Project Founders

Table 5 Stakeholder Requirements

5 System Features

< List and briefly describe the system features. Features are the high-level capabilities of the system that are necessary to deliver benefits to the users. Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not how) they should be implemented >

ID	Feature	Stakeholder Requirement ID
CreateProfile	Able to create an account and profile with the George Brown College email and successfully log in.	Customer
PostItem	Able to post lost items so that the owner can claim in through the web application.	Customer
TradeItem	Able to post personal items so that it can be traded with another user that desires said personal item.	Customer

Table 6 System Features

6 Assumptions

The users will have compatible devices and the internet access to run the web application. The users will have a George Brown College email address that will allow them to create an account. The application can manage the database with the items posted with ease. The application will be intuitive enough so that users know how to post items and the processes that come after them.

7 Constraints

7.1 Functionality

The user creates an account using the George Brown College email, meaning that it must end with @georgebrown.ca.

The application depends on access to the internet and a device that can access the web.

7.2 Security

The application will protect the user password by implementing encryption measures in case there are data breaches.

The application will also have a report functionality in case there are any issues.